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OXYGEN MONITORS

Portable Gas Monitor: Easy to carry-buzzer and lamp alert when reached dangerous concentration

Oxygen (for oxygen deficiency prevention)

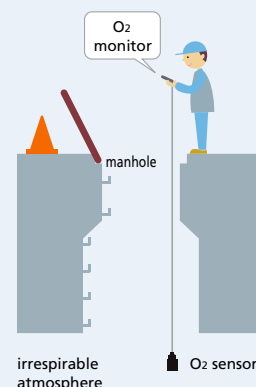
OPA-5000E (for personal use/diffusion type)

The OPA-5000E O₂ monitor detects Oxygen concentration at work place for each workers on-time for their safety.



Point

- Buzzer and lamp alert when reached dangerous concentration.
- Compact size to fit to a belt or pocket for hands-free work.
- Power saving function for long time operation.



sensor cord
and adaptor
(option)

- Structure to prevent water and dust go in the sensor.
- Approval of intrinsically safe apparatus.
- Remote detection with an optional adaptor and 5 metre length sensor cord.

Specification

Model	OPA-5000E
Measuring gas	Oxygen
Detection method	Galvanic cell
Sampling method	Suction type
Measuring range	0~50.0vol%
Resolution	0.1vol%
Detectable accuracy	0~25.0vol%:±0.5vol% 25.1~50.0vol%:±3vol%
Alarm concentration	Below 18.0vol%
Alarm method	LCD, LED lamp and buzzer
Response time	Within 15 seconds at 90% response
Power supply	3xAA size alkaline battery
Continuous operation time	Over 1000 hours
Explosion-proof	Exia II CT4X (No.TC16908)
Operating temperature	-10~40°C; 30~85%RH (non-condensing)
Dimensions	105 (W)x56 (H)x29 (D)mm
Weight	Approx. 150g
Standard accesory	Softcase

The dangers of deficiency of Oxygen

Oxygen is an odorless, colourless gas. Decrease in the level of oxygen leads to oxygen deficiency and shall be died of suffocation in. The effects of oxygen concentration on the human body are as below.

O ₂ conc.	Symptom
15~14vol%	Deep breath, fast pulse, difficult to work
11~10vol%	Breathing trouble, drowsiness, languorous
7~6vol%	Lose color, desensitized sense, lose consciousness
Below 4vol%	Lose consciousness within 40 seconds and fall unconscious

OXYGEN MONITOR

Portable Gas Monitors

Oxygen (for oxygen deficiency prevention)

OMA-600E (portable/diffusion type)

The OMA-600E monitors Oxygen and alerts workers of Oxygen concentration before entering to irrespirable atmospheres or oxygen-deficient confined space such as tunnel, manhole or public utility conduit to protect from injury by oxygen deficiency.

Marks in white on every 1 metre on the sensor cord is your indication for distance at remote measurement such as at the bottom of manhole.

· Certified to Nippon Kaiji Kyokai (NK) type test



Oxygen (for oxygen deficiency prevention)

OM-600E (portable/diffusion type)

The OMA-600E monitors Oxygen and alerts workers of Oxygen concentration before entering to irrespirable atmospheres or oxygen-deficient confined space such as tunnel, manhole or public utility conduit to protect from injury by oxygen deficiency.

- Point**
- Delivers gas alarm and/or trouble with loud sound (above 90dB/10 cm).
 - Delivers alarm with bright LED flickers, in operation (GREEN), alarm (RED), trouble (ORANGE).
 - Large LCD display for easy reading.
 - Powerful suction pump, fast response time.
 - Approval of intrinsically safe apparatus.

· Certified to Nippon Kaiji Kyokai (NK) type test



Specification

Model	OMA-600E	OM-600E
Measuring gas	Oxygen	
Detection method	Galvanic cell	
Sampling method	Diffusion type	Suction type (Approx. 0.6L/min (at room temperature with 5m gas sampling hose))
Measuring range	0.0~50.0vol%	
Resolution	0.1vol%	
Detectable accuracy	0.0~25.0vol%:±0.5vol% Above 25.1vol%:±3.0vol%	
Alarm accuracy	±0.5vol% against alarm setting value 18.0vol%	
Alarm concentration	18.0vol%	
Alarm method	LED lamp, LCD, buzzer alarm	
Response time	Within 15 seconds at 90% response at 20°C	Within 15 seconds at 90% response from sampling gas inlet at 20°C
Power supply	3×AA size alkaline dry battery (LR6)	
Continuous operation time	Approx. 2500 hrs (no alarm)	Approx. 16 hrs (no alarm)
Explosion-proof	Exia II CT4X (No.TC20164)	Exia II CT4X (No.TC19531)
Operating temperature	-10~40°C; 30~85%RH (non-condensing)	
Pressure range	80~110kPa	
Dimensions	160 (W)×93 (H)×65 (D)mm	78 (W)×200 (H)×50 (D)mm
Weight	Approx. 740g (including batteries and sensor cord)	Approx. 550g (including batteries)
Standard accessory	5m sensor cord, carrying case	Gas sampling hose with float type gas collector (5m, polyurethane), leather case, carrying case

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